

Practitioner's Docket No. MPI93-006CP1DV1ACN1DV1MSerial No. 10/643,627IN THE CLAIMS

Please cancel claims 29, 31, 33, 42 and 43. Please amend claims 27, 28, 30, 32, and 34-41. Please add new claims 44-47. Claims 27, 28, 30, 32, 34-41, and 44-47 will be pending upon entry of the instant amendment.

This listing of claims will replace all prior versions, and listings, of claims in the application:

**STATUS OF THE CLAIMS:**

1-26. (Canceled).

27. (Currently Amended) An isolated C140 receptor polypeptide encoded by a nucleic acid molecule which hybridizes under stringent conditions to a nucleic acid molecule selected from the group consisting of: (a) ~~a nucleic acid molecule complimentary to SEQ ID NO: 1~~, (b) a nucleic acid molecule complimentary to SEQ ID NO: 3, (c) ~~a nucleic acid molecule complimentary to SEQ ID NO: 60~~, and (d) (b) a nucleic acid molecule complimentary to SEQ ID NO: 62, wherein the stringent conditions are: (1) hybridization in 50% (vol/vol) formamide with 0.1% bovine serum albumin, 0.1% Ficoll, 0.1% polyvinylpyrrolidone, 50 mM sodium phosphate buffer at pH 6.5 with 750 mM NaCl and 75 mM sodium citrate at 42°C; or (2) hybridization in 50% formamide, 5 X SSC (750 mM NaCl, 75 mM sodium citrate), 50 mM sodium phosphate (pH 6.8), 0.1% sodium pyrophosphate, 5 X Denhardt's solution, sonicated salmon sperm DNA (50 :g/ml), 0.1% SDS, and 10% dextran sulfate at 42°C, with washes at 42°C in 0.2 X SSC and 0.1% SDS or with washes at 50°C in 15 mM NaCl, 1.5 mM sodium citrate, and 0.1% sodium dodecyl sulfate.

28. (Currently Amended) ~~An~~The isolated polypeptide of claim 27, wherein the polypeptide comprises at least about 75% amino acid sequence identity with either ~~any one~~ of SEQ ID NOS: 2, 4, 61, or 63.

29. (Canceled)

30. (Currently Amended) ~~An~~The isolated polypeptide of claim 27 encoded by a nucleic acid molecule comprising nucleotides 56-1249 of SEQ ID NO: 3.

31. (Canceled)

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32. (Currently Amended) ~~An~~The isolated polypeptide of claim 27 encoded by a nucleic acid molecule comprising nucleotides 50-1240 of SEQ ID NO: 62.

33. (Canceled)

34. (Currently Amended) ~~An~~The isolated polypeptide of claim 27, comprising ~~amino acids 1-34 of SEQ ID NO: 2, amino acids 1-37 of SEQ ID NO: 4, amino acids 1-38 of SEQ ID NO: 61 or amino acids 1-36 of SEQ ID NO: 63.~~

35. (Currently Amended) ~~An~~The isolated polypeptide of claim 27, comprising ~~amino acids 28-34 of SEQ ID NO: 2, amino acids 31-37 of SEQ ID NO: 4, amino acids 32-38 of SEQ ID NO: 61 or amino acids 30-36 of SEQ ID NO: 63.~~

36. (Currently Amended) ~~An~~The isolated polypeptide of claim 27, wherein the polypeptide is an agonist of C140 receptor induced  $\text{Ca}^{2+}$  release.

37. (Currently Amended) ~~An~~The isolated polypeptide of claim 27, wherein the polypeptide is an antagonist of C140 receptor induced  $\text{Ca}^{2+}$  release.

38. (Currently Amended) ~~An~~The isolated polypeptide of either of claims 36 or 37, wherein the polypeptide comprises at least 75% amino acid sequence identity to the N-terminal end of the activated C140 receptor.

39. (Currently Amended) ~~An~~The isolated polypeptide of either of claims 36 or 37, wherein the polypeptide comprises at least 90% amino acid sequence identity to the N-terminal end of the activated C140 receptor.

40. (Currently Amended) ~~An~~The isolated polypeptide of either of claims 36 or 37, wherein the polypeptide comprises at least 95% amino acid sequence identity to the N-terminal end of the activated C140 receptor.

41. (Currently Amended) ~~An~~The isolated polypeptide of claim 37, wherein the polypeptide lacks the N-terminal Serine of the activated C140 receptor.

42. (Canceled)

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43. (Canceled)

44. (New) An isolated polypeptide comprising a C140 polypeptide having an amino acid sequence at least 95% identical to SEQ ID NO: 63.

45. (New) An isolated polypeptide comprising a C140 polypeptide having an amino acid sequence at least 95% identical to SEQ ID NO: 4.

46. (New) The isolated polypeptide of claim 27 consisting of a fragment of SEQ ID NO: 63 wherein the fragment comprises at least 10 consecutive amino acids in length.

47. (New) The isolated polypeptide of claim 27 consisting of a fragment of SEQ ID NO: 4 wherein the fragment comprises at least 10 consecutive amino acids in length.

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